17) IMPROVEMENTS AND ASPHALTING TO ROADS AND DRAINS AT GANGAMMA GUDI BACKSIDE CROSS ROADS IN WARD NO. 11 KUVEMPUNAGARA, VIDYARANYAPURA SUB DIVISION

BRUHAT BANGALORE MAHANAGARA PALIKE

PREPARATION OF DPR FOR PACKAGE NO. 04

(PACKAGE CONSISTS OF 28 WORKS IN WARD NO 10 AND WARD NO 11)

NAME OF WORK : IMPROVEMENTS AND ASPHALTING TO ROADS AND DRAINS AT GANGAMMA GUDI BACKSIDE CROSS ROADS IN WARD NO. 11 KUVEMPUNAGARA, VIDYARANYAPURA SUB DIVISION.

Sl.No.	Description of work	Measurement					Qty	Rate	Amount
		Unit	No	L	B	D			
1	KSRB 2-1.1: Earthwork in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, roads drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up lift 1.5, excavated surface leveled and neatly dressed disposed earth to be leveled after breaking of clods and neatly dressed as per specifications.Specification. No. KBS 2.1(a)/2.3.1(P.No.5-I.No.2.1)								
	Desilting drain								
	SRINIKETH BADAVANE								
	Kuvempunagara 2nd	Cum	2	154.00	0.65	0.40	80.08		
	Stage Akshaya Road	Cum	2	255.50	0.53	0.40	107.31		
	CP House No 80/60	Cum	2	150.00	0.70	0.40	84.00		
	Mukkunda House Road	Cum	1	74.25	0.60	0.40	17.82		
	5th Cross Road (S.B Road)	Cum	2	128.80	0.60	0.40	61.82		
	4th Cross Road (S.B Road)	Cum	2	124.00	0.70	0.40	69.44		
	3rd Cross Road (S.B Road)	Cum	2	110.00	0.68	0.40	59.40		
	3rd Main Road (S.B Road)	Cum	2	24.50	0.65	0.40	12.74		
	Cross Road Behind Vaishnavi Nilaya	Cum	2	62.50	0.60	0.40	30.00		
	Basic rate							157.00	
	Area weightage 6%							9.42	
	Total						**522.61**	**166.42**	**86973.42**
2	Removing B.S.slab of Drain and stacking.(P.No.25-I.No.5.32)								
	SRINIKETH BADAVANE								
	Open Drain (Sides & Bottom)								
	Kuvempunagara 2nd	Sqm	2	154.00	1.90		585.20		
	Stage Akshaya Road	Sqm	2	255.50	1.65		843.15		
	CP House No 80/60	Sqm	2	150.00	2.10		630.00		
	5th Cross Road (S.B Road)	Sqm	2	128.80	1.80		463.68		
	4th Cross Road (S.B Road)	Sqm	2	124.00	2.10		520.80		
	3rd Cross Road (S.B Road)	Sqm	2	110.00	2.03		445.50		
	3rd Main Road (S.B Road)	Sqm	2	24.50	1.95		95.55		
	Cross Road Behind Vaishnavi Nilaya	Sqm	2	62.50	1.80		225.00		
	Closed Drain								
	Cover Slab								
	Mukkunda House Road	Sqm	1	74.25	0.60		44.55		
	Sub Total						**3853.43**		
	Consider 5% Qnty for Removing	Sqm					**192.67**		
	Basic rate							62.00	
	Area weightage 6%							3.72	

	Total						192.67	65.72	12662.37
3	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.25-I.No.5.33)								
	Closed Drain								
	Cover Slab								
	SRINIKETH BADAVANE								
	Mukkunda House Road	Sqm	1	74.25	0.60		44.55		
	Sub Total						**44.55**		
	Consider 30% Qnty for Removing & Refixing						**13.37**		
	Basic rate							76.00	
	Area weightage 6%							4.56	
	Total						**13.37**	**80.56**	**1076.68**
4	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.25,I.No.5.31.1)								
	SRINIKETH BADAVANE								
	Closed Drain								
	Cover Slab								
	Mukkunda House Road	Sqm	1	74.25	0.60		44.55		
	Sub Total						**44.55**		
	Consider 5% Qnty for Removing						**2.23**		
	Basic rate							628.00	
	Area weightage 6%							37.68	
	Total						**2.23**	**665.68**	**1482.80**
5	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.25,I.No.5.312)								
	Open Drain (Sides & Bottom)								
	SRINIKETH BADAVANE								
	Kuvempunagara 2nd Stage Akshaya Road	Sqm	2	154.00	1.90		585.20		
		Sqm	2	255.50	1.65		843.15		
	CP House No 80/60	Sqm	2	150.00	2.10		630.00		
	5th Cross Road (S.B Road)	Sqm	2	128.80	1.80		463.68		
	4th Cross Road (S.B Road)	Sqm	2	124.00	2.10		520.80		
	3rd Cross Road (S.B Road)	Sqm	2	110.00	2.03		445.50		
	3rd Main Road (S.B Road)	Sqm	2	24.50	1.95		95.55		
	Cross Road Behind Vaishnavi Nilaya	Sqm	2	62.50	1.80		225.00		
	Sub Total						**3808.88**		
	Consider 5% Qnty for Refixing	Sqm					**190.44**		
	Basic rate							779.00	
	Area weightage 6%							46.74	
	Total						**190.44**	**825.74**	**157257.23**
6	KSRB 300-1 : Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.(P.No.142,I.No.19.1)								
	For Road Cutting Portions								

	SRINIKETH BADAVANE								
	Mukkunda House Road	Cum	1	74.25	5.20	0.23	88.80		
	Basic rate							82.00	
	Area weightage 6%							4.92	
	Total						**88.80**	**86.92**	**7718.76**
7	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 15kms.(Refer Table. Page No.139)								
	Considered same Qty vide I.No.1 +I.No.6	Cum					611.42		
	Average Weight of Earth (1.28 Ton/cum, Basic rate Rs.2.5Tonne/Km.) For 15 Kms = (2.5x 1.28 x 15)/-		48.00						
	KSRRB M100-1 Add loading & unloading (P.No.130,I.No.17.1)		68.00						
	Total rate per Cum		116.00						
	Basic rate							116.00	
	Area weightage 6%							6.96	
	Total						**611.42**	**122.96**	**75179.83**
8	KSRRB M400-17.Providing,laying, spreading and compacting crushed stone aggregates of granite/trap/ basalt to wet mix macadam specification including pre mixing the Material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density. complete as per specifications.MORTH specification No.406(Page No.158,I.No.20.18)								
	For Road Cutting								
	SRINIKETH BADAVANE								
	Mukkunda House Road	Cum	1	74.25	5.20	0.23	88.80		
	Basic rate							1668.00	
	Area weightage 6%							100.08	
	Total						**88.80**	**1768.08**	**157010.81**
9	KSRRB 500-1.Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications.(P.No.161,I.No.21.1)								
	For Road Cutting								
	SRINIKETH BADAVANE								
	Mukkunda House Road	Sqm	1	74.25	5.20		386.10		
	Basic rate							13.00	
	Area weightage 6%							0.78	
	Total						**386.10**	**13.78**	**5320.46**
10	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6)								
	Considered same Above Qty	Sqm					386.10		
	Basic rate							26.00	
	Area weightage 6%							1.56	

	Total						**386.10**	**27.56**	**10640.92**
11	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No.163 of I.No.21.17.6)								
	SRINIKETH BADAVANE								
	Mukkunda House Road	Sqm	1	74.25	5.20	0.05	19.31		
	Sub Total						**19.31**		
	Consider 5% qty for Profile correction and Dipression filling						**0.9653**		
	Basic rate							6717.00	
	Area weightage 6%							403.02	
	Total						**20.27**	**7120.02**	**144324.59**
12	KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(P.No.161,I.No.21.2).								
	For Road Surface								
	SRINIKETH BADAVANE								
	Kuvempunagara 2nd	Sqm	1	154.00	5.10		785.40		
	Stage Akshaya Road	Sqm	1	255.50	4.70		1200.85		
	CP House No 80/60	Sqm	1	150.00	6.05		907.50		
	Mukkunda House Road	Sqm	1	74.25	5.20		386.10		
	5th Cross Road (S.B Road)	Sqm	1	128.80	5.00		644.00		
	4th Cross Road (S.B Road)	Sqm	1	124.00	5.30		657.20		
	3rd Cross Road (S.B Road)	Sqm	1	110.00	5.20		572.00		
	3rd Main Road (S.B Road)	Sqm	1	24.50	5.10		124.95		
	Cross Road Behind Vaishnavi Nilaya	Sqm	1	62.50	5.20		325.00		
	Basic rate							3.00	
	Area weightage 6%							0.18	
	Total						**5603.00**	**3.18**	**17817.54**
13	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7)								
	For Road Surface								
	SRINIKETH BADAVANE								
	Kuvempunagara 2nd	Sqm	1	154.00	5.10		785.40		
	Stage Akshaya Road	Sqm	1	255.50	4.70		1200.85		
	CP House No 80/60	Sqm	1	150.00	6.05		907.50		
	Mukkunda House Road	Sqm	1	74.25	5.20		386.10		
	5th Cross Road (S.B Road)	Sqm	1	128.80	5.00		644.00		
	4th Cross Road (S.B Road)	Sqm	1	124.00	5.30		657.20		

	3rd Cross Road (S.B Road)	Sqm	1	110.00	5.20		572.00		
	3rd Main Road (S.B Road)	Sqm	1	24.50	5.10		124.95		
	Cross Road Behind Vaishnavi Nilaya	Sqm	1	62.50	5.20		325.00		
	Basic rate							12.00	
	Area weightage 6%							0.72	
	Total						**5603.00**	**12.72**	**71270.16**
14	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6)								
	SRINIKETH BADAVANE								
	Kuvempunagara 2nd Stage Akshaya Road	Cum	1	154.00	5.10	0.04	31.42		
		Cum	1	255.50	4.70	0.04	48.03		
	CP House No 80/60	Cum	1	150.00	6.05	0.04	36.30		
	Mukkunda House Road	Cum	1	74.25	5.20	0.04	15.44		
	5th Cross Road (S.B Road)	Cum	1	128.80	5.00	0.04	25.76		
	4th Cross Road (S.B Road)	Cum	1	124.00	5.30	0.04	26.29		
	3rd Cross Road (S.B Road)	Cum	1	110.00	5.20	0.04	22.88		
	3rd Main Road (S.B Road)	Cum	1	24.50	5.10	0.04	5.00		
	Cross Road Behind Vaishnavi Nilaya	Cum	1	62.50	5.20	0.04	13.00		
	Profile correction & Pot Hole Filling	**No.*(1/2)*Length*(20%*Width)*Depth**							
	SRINIKETH BADAVANE								
	Kuvempunagara 2nd Stage Akshaya Road	Cum	1	154.00	5.10	0.04	3.14		
		Cum	1	255.50	4.70	0.04	4.80		
	CP House No 80/60	Cum	1	150.00	6.05	0.04	3.63		
	Mukkunda House Road	Cum	1	74.25	5.20	0.04	1.54		
	5th Cross Road (S.B Road)	Cum	1	128.80	5.00	0.04	2.58		
	4th Cross Road (S.B Road)	Cum	1	124.00	5.30	0.04	2.63		
	3rd Cross Road (S.B Road)	Cum	1	110.00	5.20	0.04	2.29		
	3rd Main Road (S.B Road)	Cum	1	24.50	5.10	0.04	0.50		
	Cross Road Behind Vaishnavi Nilaya	Cum	1	62.50	5.20	0.04	1.30		
	Basic rate							7659.00	
	Area weightage 6%							459.54	
	Total						**246.53**	**8118.54**	**2001479.90**
15	Providing Plastic to Bituminous concrete @ 8%								
	8% OF BC	Kg		0.08	246.53	117.00	**2307.54**		
	Basic rate							27.00	
	Area weightage 6%							1.62	
	Total						**2307.54**	**28.62**	**66041.78**

16	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. (P.No.185- I.No.24.15)								
	SRINIKETH BADAVANE								
	Kuvempunagara 2nd Stage Akshaya Road	Sqm	2	154.00	0.10		30.80		
		Sqm	2	255.50	0.10		51.10		
	CP House No 80/60	Sqm	2	150.00	0.10		30.00		
	Mukkunda House Road	Sqm	2	74.25	0.10		14.85		
	5th Cross Road (S.B Road)	Sqm	2	128.80	0.10		25.76		
	4th Cross Road (S.B Road)	Sqm	2	124.00	0.10		24.80		
	3rd Cross Road (S.B Road)	Sqm	2	110.00	0.10		22.00		
	3rd Main Road (S.B Road)	Sqm	2	24.50	0.10		4.90		
	Cross Road Behind Vaishnavi Nilaya	Sqm	2	62.50	0.10		12.50		
	Basic rate							512.00	
	Area weightage 6%							30.72	
	Total						216.71	542.72	117612.85
								Sub Total	**2933870.10**
	Preparation of DPR And Project management Consultancy Charges(2% of estimated cost)								60000
	Miscellenious and rounding								6130
	TOTAL AMOUNT								**3000000**
	RUPEES THIRTY LAKHS ONLY								

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2016-2017

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

18) IMPROVEMENTS AND ASPHALTING TO ROADS AND DRAINS AT SHIMADRI LAYOUT IN WARD NO. 11 KUVEMPUNAGARA, VIDYARANYAPURA SUB DIVISION

BRUHAT BANGALORE MAHANAGARA PALIKE

PREPARATION OF DPR FOR PACKAGE NO. 04

(PACKAGE CONSISTS OF 28 WORKS IN WARD NO 10 AND WARD NO 11)

NAME OF WORK :IMPROVEMENTS AND ASPHALTING TO ROADS AND DRAINS AT SHIMADRI LAYOUT IN WARD NO. 11 KUVEMPUNAGARA, VIDYARANYAPURA SUB DIVISION.

Sl.No.	Description of work	Measurement					Qty	Rate	Amount
		Unit	No	L	B	D			
1	KSRB 2-1.1: Earthwork in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, roads drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up lift 1.5, excavated surface leveled and neatly dressed disposed earth to be leveled after breaking of clods and neatly dressed as per specifications.Specification. No. KBS 2.1(a)/2.3.1(P.No.5-I.No.2.1)								
	Desilting drain								
	BASAVASAMITHI LAYOUT								
	Basavasamithi main Road	Cum	2	420.75	0.70	0.40	235.62		
	Basic rate							157.00	
	Area weightage 6%							9.42	
	Total						**235.62**	**166.42**	**39211.88**
2	Removing B.S.slab of Drain and stacking.(P.No.25-I.No.5.32)								
	BASAVASAMITHI LAYOUT								
	Closed Drain								
	Cover Slab								
	Basavasamithi main Road	Sqm	2	420.75	0.70		589.05		
	Sub Total						**589.05**		
	Consider 5% Qnty for Removing	Sqm					**29.45**		
	Basic rate							62.00	
	Area weightage 6%							3.72	
	Total						**29.45**	**65.72**	**1935.62**
3	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.25-I.No.5.33)								
	BASAVASAMITHI LAYOUT								
	Closed Drain								
	Cover Slab								
	Basavasamithi main Road	Sqm	2	420.75	0.70		589.05		
	Sub Total						**589.05**		
	Consider 30% Qnty for Removing & Refixing						**176.72**		
	Basic rate							76.00	
	Area weightage 6%							4.56	
	Total						**176.72**	**80.56**	**14236.16**
4	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.25,I.No.5.31.1)								
	BASAVASAMITHI LAYOUT								
	Closed Drain								
	Cover Slab								
	Basavasamithi main Road	Sqm	2	420.75	0.70		589.05		
	Sub Total						**589.05**		
	Consider 5% Qnty for Removing						**29.45**		

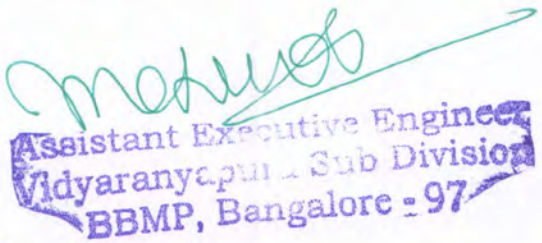
	Basic rate							628.00	
	Area weightage 6%							37.68	
	Total						29.45	665.68	19605.94
5	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 15kms.(Refer Table. Page No.139)								
	Considered same Qty vide I.No.1	Cum					235.62		
	Average Weight of Earth (1.28 Ton/cum, Basic rate Rs.2.5Tonne/Km.) For 15 Kms = (2.5x 1.28 x 15)/-		48.00						
	KSRRB M100-1 Add loading & unloading (P.No.130,I.No.17.1)		68.00						
	Total rate per Cum		116.00						
	Basic rate							116.00	
	Area weightage 6%							6.96	
	Total						235.62	122.96	28971.84
6	KSRRB 500-1.Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications.(P.No.161,I.No.21.1)								
	BASAVASAMITHI LAYOUT								
	Basavasamithi main	Sqm	1	262.00	6.73		1763.26		
	Basic rate							13.00	
	Area weightage 6%							0.78	
	Total						1763.26	13.78	24297.72
7	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6)								
	Considered same Above Qty	Sqm					1763.26		
	Basic rate							26.00	
	Area weightage 6%							1.56	
	Total						1763.26	27.56	48595.45
8	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No.163 of I.No.21.17.6)								
	BASAVASAMITHI LAYOUT								
	Basavasamithi main Road	Sqm	1	262.00	6.73	0.05	88.16		
	Sub Total						**88.16**		
	Consider 5% qty for Profile correction and Dipression filling						**4.4082**		
	Basic rate							6717.00	
	Area weightage 6%							403.02	

	Total						**92.57**	**7120.02**	**659108.44**
9	KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(P.No.161,I.No.21.2).								
	For Road Surface								
	BASAVASAMITHI LAYOUT								
	Basavasamithi main	Sqm	1	160.25	6.43		1030.41		
	Road	Sqm	1	262.00	6.73		1763.26		
	Basic rate							3.00	
	Area weightage 6%							0.18	
	Total						**2793.67**	**3.18**	**8883.86**
10	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7)								
	For Road Surface								
	BASAVASAMITHI LAYOUT								
	Basavasamithi main	Sqm	1	160.25	6.43		1030.41		
	Road	Sqm	1	262.00	6.73		1763.26		
	Basic rate							12.00	
	Area weightage 6%							0.72	
	Total						**2793.67**	**12.72**	**35535.45**
11	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6)								
	BASAVASAMITHI LAYOUT								
	Basavasamithi main	Cum	1	160.25	6.43	0.04	41.22		
	Road	Cum	1	262.00	6.73	0.04	70.53		
	Profile correction & Pot Hole Filling	**No.*(1/2)*Length*(20%*Width)*Depth**							
	BASAVASAMITHI LAYOUT								
	Basavasamithi main	Cum	1	160.25	6.43	0.04	4.12		
	Road	Cum	1	262.00	6.73	0.04	7.05		
	Basic rate							7659.00	
	Area weightage 6%							459.54	
	Total						**122.92**	**8118.54**	**997942.06**
12	Providing Plastic to Bituminous concrete @ 8%								
	8% OF BC	Kg		0.08	122.92	117.00	**1150.54**		
	Basic rate							27.00	
	Area weightage 6%							1.62	
	Total						**1150.54**	**28.62**	**32928.57**

13	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. (P.No.185- I.No.24.15)								
	BASAVASAMITHI LAYOUT								
	Basavasamithi main	Cum	2	160.25	0.10		32.05		
	Road	Cum	2	262.00	0.10		52.40		
	Basic rate							512.00	
	Area weightage 6%							30.72	
	Total						**84.45**	**542.72**	**45832.70**
								Sub Total	**1957085.69**
	Preparation of DPR And Project management Consultancy Charges(2% of estimated cost)								40000
	Miscellenious and rounding								2914
	TOTAL AMOUNT								**2000000**
	RUPEES TWENTY LAKHS ONLY								

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2016-2017



19) IMPROVEMENTS AND ASPHALTING TO ROADS AND DRAINS AT SINGAPURA GARDEN AND SURROUNDING AREAS IN WARD NO. 11 (KUVEMPUNAGARA), VIDYARANYAPURA SUB DIVISION

BRUHAT BANGALORE MAHANAGARA PALIKE

PREPARATION OF DPR FOR PACKAGE NO. 04

(PACKAGE CONSISTS OF 28 WORKS IN WARD NO 10 AND WARD NO 11)

NAME OF WORK :IMPROVEMENTS AND ASPHALTING TO ROADS AND DRAINS AT SINGAPURA GARDEN AND SURROUNDING AREAS IN WARD NO. 11 (KUVEMPUNAGARA), VIDYARANYAPURA SUB DIVISION.

Sl.No.	Description of work	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
1	KSRB 2-1.1: Earthwork in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, roads drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up lift 1.5, excavated surface leveled and neatly dressed disposed earth to be leveled after breaking of clods and neatly dressed as per specifications.Specification. No. KBS 2.1(a)/2.3.1(P.No.5-I.No.2.1)								
	Desilting drain								
	CHANDRAPPA LAYOUT								
	1st cross	Cum	1	153.00	0.60	0.40	36.72		
	4th cross	Cum	2	154.00	0.60	0.40	73.92		
	5th cross	Cum	2	358.30	0.60	0.40	171.98		
	A.Chandrappa road 3rd Cross (LHS)	Cum	2	101.50	0.60	0.40	48.72		
	Basic rate							157.00	
	Area weightage 6%							9.42	
	Total						**331.34**	**166.42**	**55142.27**
2	Removing B.S.slab of Drain and stacking.(P.No.25-I.No.5.32)								
	Closed Drain								
	Cover Slab								
	CHANDRAPPA LAYOUT								
	1st cross	Sqm	1	153.00	0.60		91.80		
	5th cross	Sqm	2	358.30	0.60		429.96		
	Open Drain(Sides & Bottom)								
	4th cross	Sqm	2	154.00	1.80		554.40		
	A.Chandrappa road 3rd Cross (LHS)	Sqm	2	101.50	1.80		365.40		
	Sub Total						**1441.56**		
	Consider 5% Qnty for Removing						**72.08**		
	Basic rate							62.00	
	Area weightage 6%							3.72	
	Total						**72.08**	**65.72**	**4736.97**
3	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.25-I.No.5.33)								
	Closed Drain								
	Cover Slab								
	CHANDRAPPA LAYOUT								
	1st cross	Sqm	1	153.00	0.60		91.80		
	5th cross	Sqm	2	358.30	0.60		429.96		
	Sub Total						**521.76**		
	Consider 30% Qnty for Removing & Refixing						**156.53**		
	Basic rate							76.00	
	Area weightage 6%							4.56	
	Total						**156.53**	**80.56**	**12609.90**
4	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.25,I.No.5.31.1)								
	Closed Drain								

	Cover Slab								
	CHANDRAPPA LAYOUT								
	1st cross	Sqm	1	153.00	0.60		91.80		
	5th cross	Sqm	2	358.30	0.60		429.96		
	Sub Total						**521.76**		
	Consider 5% Qnty for Refixing						**26.09**		
	Basic rate							628.00	
	Area weightage 6%							37.68	
	Total						**26.09**	**665.68**	**17366.26**
5	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.25,I.No.5.31.2)								
	Open Drain(Sides & Bottom)								
	4th cross	Sqm	2	154.00	1.80		554.40		
	A.Chandrappa road 3rd Cross (LHS)	Sqm	2	101.50	1.80		365.40		
	Sub Total						**919.80**		
	Consider 5% Qnty for Removing						**45.99**		
	Basic rate							779.00	
	Area weightage 6%							46.74	
	Total						**45.99**	**825.74**	**37975.78**
6	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 15kms.(Refer Table. Page No.139)								
	Considered same Qty vide I.No.1	Cum					331.34		
	Average Weight of Earth (1.28 Ton/cum, Basic rate Rs.2.5Tonne/Km.) For 15 Kms = (2.5x 1.28 x 15)/-		48.00						
	KSRRB M100-1 Add loading & unloading (P.No.130,I.No.17.1)		68.00						
	Total rate per Cum		116.00						
	Basic rate							116.00	
	Area weightage 6%							6.96	
	Total						**331.34**	**122.96**	**40742.06**
7	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Chapter 3(P.No.147, I.No.19.56)								
	CHANDRAPPA LAYOUT								
	A.Chandrappa road 3rd Cross (LHS)	Sqm	1	101.50	5.00		507.50		
	Basic rate							29.00	
	Area weightage 6%							1.74	
	Total						**507.50**	**30.74**	**15600.55**
8	KSRRB 500-1.Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications.(P.No.161,I.No.21.1)								
	CHANDRAPPA LAYOUT								
	5th cross	Sqm	1	358.30	5.80		2078.14		

	A.Chandrappa road 3rd Cross (LHS)	Sqm	1	101.50	5.00		507.50		
	Basic rate							13.00	
	Area weightage 6%							0.78	
	Total						**2585.64**	**13.78**	**35630.12**
9	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6)								
	Considered same Above Qty	Sqm					2585.64		
	Basic rate							26.00	
	Area weightage 6%							1.56	
	Total						**2585.64**	**27.56**	**71260.24**
10	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No.163 of I.No.21.17.6)								
	CHANDRAPPA LAYOUT								
	5th cross	Cum	1	358.30	5.80	0.05	103.91		
	A.Chandrappa road 3rd Cross (LHS)	Cum	1	101.50	5.00	0.05	25.38		
	Sub Total						**129.28**		
	Consider 5% qty for Profile correction and Dipression filling						**6.46**		
	Basic rate							6717.00	
	Area weightage 6%							403.02	
	Total						**135.75**	**7120.02**	**966514.95**
11	KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(P.No.161,I.No.21.2).								
	CHANDRAPPA LAYOUT								
	For Road surface								
	1st cross	Sqm	1	153.00	5.10		780.30		
	4th cross	Sqm	1	154.00	5.10		785.40		
	5th cross	Sqm	1	358.30	5.80		2078.14		
	A.Chandrappa road 3rd Cross (LHS)	Sqm	1	101.50	5.00		507.50		
	Basic rate							3.00	
	Area weightage 6%							0.18	
	Total						**4151.34**	**3.18**	**13201.26**
12	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7)								
	CHANDRAPPA LAYOUT								
	For Road surface								
	1st cross	Sqm	1	153.00	5.10		780.30		
	4th cross	Sqm	1	154.00	5.10		785.40		
	5th cross	Sqm	1	358.30	5.80		2078.14		
	A.Chandrappa road 3rd Cross (LHS)	Sqm	1	101.50	5.00		507.50		

	Basic rate							12.00	
	Area weightage 6%							0.72	
	Total						**4151.34**	**12.72**	**52805.04**
13	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6)								
	CHANDRAPPA LAYOUT								
	1st cross	Cum	1	153.00	5.10	0.04	31.21		
	4th cross	Cum	1	154.00	5.10	0.04	31.42		
	5th cross	Cum	1	358.30	5.80	0.04	83.13		
	A.Chandrappa road 3rd Cross (LHS)	Cum	1	101.50	5.00	0.04	20.30		
	Profile correction & Pot Hole Filling	**No.*(1/2)*Length*(20%*Width)*Depth**							
	CHANDRAPPA LAYOUT								
	1st cross	Cum	1	153.00	5.10	0.04	3.12		
	4th cross	Cum	1	154.00	5.10	0.04	3.14		
	5th cross	Cum	1	358.30	5.80	0.04	8.31		
	A.Chandrappa road 3rd Cross (LHS)	Cum	1	101.50	5.00	0.04	2.03		
	Basic rate							7659.00	
	Area weightage 6%							459.54	
	Total						**182.66**	**8118.54**	**1482924.07**
14	Providing Plastic to Bituminous concrete @ 8%								
	8% OF BC	Kg		0.08	182.66	117.00	**1709.69**		
	Basic rate							27.00	
	Area weightage 6%							1.62	
	Total						**1709.69**	**28.62**	**48931.27**
15	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. (P.No.185- I.No.24.15)								
	CHANDRAPPA LAYOUT								
	1st cross	Sqm	2	153.00	0.10		30.60		
	4th cross	Sqm	2	154.00	0.10		30.80		
	5th cross	Sqm	2	358.30	0.10		71.66		

	A.Chandrappa road 3rd Cross (LHS)	Sqm	2	101.50	0.10		20.30		
	Basic rate							512.00	
	Area weightage 6%							30.72	
	Total						153.36	542.72	83231.54
								Sub Total	**2938672.27**
	Preparation of DPR And Project management Consultancy Charges(2% of estimated cost)								60000
								Miscellenious and rounding	1328
								TOTAL AMOUNT	**3000000**
									RUPEES THIRTY LAKHS ONLY

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2016-2017

20) IMPROVEMENTS AND ASPHALTING TO ROADS AND DRAINS AT SRINIDHI LAYOUT, VYSHNAVI LAYOUT AND SURROUNDING AREAS IN WARD NO. 11 (KUVEMPUNAGARA), VIDYARANYAPURA SUB DIVISION

BRUHAT BANGALORE MAHANAGARA PALIKE

PREPARATION OF DPR FOR PACKAGE NO. 04

(PACKAGE CONSISTS OF 28 WORKS IN WARD NO 10 AND WARD NO 11)

NAME OF WORK :IMPROVEMENTS AND ASPHALTING TO ROADS AND DRAINS AT SRINIDHI LAYOUT, VYSHNAVI LAYOUT AND SURROUNDING AREAS IN WARD NO. 11 (KUVEMPUNAGARA), VIDYARANYAPURA SUB DIVISION.

Sl.No.	Description of work	Measurement					Qty	Rate	Amount
		Unit	No	L	B	D			
1	KSRB 2-1.1: Earthwork in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, roads drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up lift 1.5, excavated surface leveled and neatly dressed disposed earth to be leveled after breaking of clods and neatly dressed as per specifications.Specification. No. KBS 2.1(a)/2.3.1(P.No.5-I.No.2.1)								
	Desilting drain								
	PRAKRUTHI LAYOUT								
	Main road and cross roads	Cum	2	129.50	0.60	0.40	62.16		
	DEFENCE LAYOUT								
	3rd Road	Cum	2	229	0.80	0.40	146.56		
	BEL LAYOUT								
	3rd Block 12th Cross Road	Cum	2	259	0.60	0.40	124.13		
	3rd Block 9th Cross Road	Cum	2	213	0.60	0.40	102.00		
	5th Block venkateshwari temple Road	Cum	2	270	0.90	0.40	194.40		
	Basic rate							157.00	
	Area weightage 6%							9.42	
	Total						**629.25**	**166.42**	**104719.45**
2	Removing B.S.slab of Drain and stacking.(P.No.25-I.No.5.32)								
	Open Drain (Sides and Bottom)								
	PRAKRUTHI LAYOUT								
	Main road and cross roads	Sqm	2	129.50	1.80		466.20		
	DEFENCE LAYOUT								
	3rd Road	Sqm	2	229	1.80		824.40		
	BEL LAYOUT								
	Closed Drain								
	Cover Slab								
	5th Block venkateshwari temple Road	Cum	2	270	0.90		486.00		
	Open Drain (Sides and Bottom)								
	3rd Block 12th Cross Road	Cum	2	259	1.80	0.40	372.38		
	3rd Block 9th Cross Road	Cum	2	213	1.80	0.40	306.00		
	Sub Total						**2454.98**		
	Consider 5% Qnty for Removing	Sqm					**122.75**		
	Basic rate							62.00	
	Area weightage 6%							3.72	
	Total						**122.75**	**65.72**	**8067.08**

3	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.25-I.No.5.33)								
	BEL LAYOUT								
	Closed Drain								
	Cover Slab								
	5th Block venkateshwari temple Road	Cum	2	270	0.90		486.00		
	Sub Total						**486.00**		
	Consider 30% Qnty for Removing & Refixing						**145.80**		
	Basic rate							76.00	
	Area weightage 6%							4.56	
	Total						**145.80**	**80.56**	**11745.65**
4	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.25,I.No.5.31.1)								
	BEL LAYOUT								
	Closed Drain								
	Cover Slab								
	5th Block venkateshwari temple Road	Cum	2	270	0.90		486.00		
	Sub Total						**486.00**		
	Consider 5% Qnty for Refixing						**24.30**		
	Basic rate							628.00	
	Area weightage 6%							37.68	
	Total						**24.30**	**665.68**	**16176.02**
5	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.25,I.No.5.312)								
	Open Drain (Sides and Bottom)								
	PRAKRUTHI LAYOUT								
	Main road and cross roads	Sqm	2	129.50	1.80		466.20		
	DEFENCE LAYOUT								
	3rd Road	Sqm	2	229	1.80		824.40		
	BEL LAYOUT								
	Closed Drain								
	Cover Slab								
	5th Block venkateshwari temple Road	Sqm	2	270	0.90		486.00		
	BEL LAYOUT								
	Open Drain (Sides and Bottom)								
	3rd Block 12th Cross Road	Sqm	2	259	1.80		930.96		
	3rd Block 9th Cross Road	Sqm	2	213	1.80		765.00		
	Sub Total						**3472.56**		
	Consider 5% Qnty for Refixing	Sqm					**173.63**		
	Basic rate							779.00	
	Area weightage 6%							46.74	
	Total						**173.63**	**825.74**	**143371.58**

6	KSRB 300-1 : Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.(P.No.142,I.No.19.1)								
	DEFENCE LAYOUT								
	3rd Road	Cum	1	54.50	0.10	0.23	1.25		
	Basic rate							82.00	
	Area weightage 6%							4.92	
	Total						**1.25**	**86.92**	**108.95**
7	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 15kms.(Refer Table. Page No.139)								
	Considered same Qty vide I.No.1 +I.No.6 + I.No.17	Cum					680.18		
	Average Weight of Earth (1.28 Ton/cum, Basic rate Rs.2.5Tonne/Km.) For 15 Kms = (2.5x 1.28 x 15)/-		48.00						
	KSRRB M100-1 Add loading & unloading (P.No.130,I.No.17.1)		68.00						
	Total rate per Cum		116.00						
	Basic rate							116.00	
	Area weightage 6%							6.96	
	Total						**680.18**	**122.96**	**83635.12**
8	KSRRB M400-17.Providing,laying, spreading and compacting crushed stone aggregates of granite/trap/ basalt to wet mix macadam specification including pre mixing the Material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density. complete as per specifications.MORTH specification No.406(Page No.158,I.No.20.18)								
	DEFENCE LAYOUT								
	3rd Road	Cum	1	54.50	0.10	0.23	1.25		
	Basic rate							1668.00	
	Area weightage 6%							100.08	
	Total						**1.25**	**1768.08**	**2216.29**
9	KSRRB 500-1.Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications.(P.No.161,I.No.21.1)								
	DEFENCE LAYOUT								
	3rd Road	Sqm	1	54.50	0.10		5.45		
	Basic rate							13.00	
	Area weightage 6%							0.78	
	Total						**5.45**	**13.78**	**75.10**
10	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6)								
	Considered same Above Qty	Sqm					5.45		
	Basic rate							26.00	
	Area weightage 6%							1.56	
	Total						**5.45**	**27.56**	**150.20**

11	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No.163 of I.No.21.17.6)								
	DEFENCE LAYOUT								
	3rd Road	Cum	1	54.50	0.10	0.050	0.27		
	Sub Total						**0.27**		
	Consider 5% qty for Profile correction and Dipression filling						**0.0136**		
	Basic rate							6717.00	
	Area weightage 6%							403.02	
	Total						**0.29**	**7120.02**	**2037.22**
12	KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(P.No.161,I.No.21.2).								
	PRAKRUTHI LAYOUT								
	Main road and cross roads	Sqm	1	129.50	4.00		518.00		
	DEFENCE LAYOUT								
	3rd Road	Sqm	1	229.00	7.00		1603.00		
	BEL LAYOUT								
	3rd Block 12th Cross Road	Sqm	1	258.60	4.50		1163.70		
	3rd Block 9th Cross Road	Sqm	1	212.50	4.50		956.25		
	5th Block venkateshwari temple Road	Sqm	1	270.00	7.00		1890.00		
	Basic rate							3.00	
	Area weightage 6%							0.18	
	Total						**6130.95**	**3.18**	**19496.42**
13	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7)								
	PRAKRUTHI LAYOUT								
	Main road and cross roads	Sqm	1	129.50	4.00		518.00		
	DEFENCE LAYOUT								
	3rd Road	Sqm	1	229.00	7.00		1603.00		
	BEL LAYOUT								
	3rd Block 12th Cross Road	Sqm	1	258.60	4.50		1163.70		
	3rd Block 9th Cross Road	Sqm	1	212.50	4.50		956.25		
	5th Block venkateshwari temple Road	Sqm	1	270.00	7.00		1890.00		
	Basic rate							12.00	
	Area weightage 6%							0.72	
	Total						**6130.95**	**12.72**	**77985.68**

14	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6)								
	PRAKRUTHI LAYOUT								
	Main road and cross roads	Cum	1	129.50	4.00	0.04	20.72		
	DEFENCE LAYOUT								
	3rd Road	Cum	1	229.00	7.00	0.04	64.12		
	BEL LAYOUT								
	3rd Block 12th Cross Road	Cum	1	258.60	4.50	0.04	46.55		
	3rd Block 9th Cross Road	Cum	1	212.50	4.50	0.04	38.25		
	5th Block venkateshwari temple Road	Cum	1	270.00	7.00	0.04	75.60		
	Profile correction & Pot Hole Filling	**No.*(1/2)*Length*(20%*Width)*Depth**							
	PRAKRUTHI LAYOUT								
	Main road and cross roads	Cum	1	129.50	4.00	0.04	2.07		
	DEFENCE LAYOUT								
	3rd Road	Cum	1	229.00	7.00	0.04	6.41		
	BEL LAYOUT								
	3rd Block 12th Cross Road	Cum	1	258.60	4.50	0.04	4.65		
	3rd Block 9th Cross Road	Cum	1	212.50	4.50	0.04	3.83		
	5th Block venkateshwari temple Road	Cum	1	270.00	7.00	0.04	7.56		
	Basic rate							7659.00	
	Area weightage 6%							459.54	
	Total						**269.76**	**8118.54**	**2190071.96**
15	Providing Plastic to Bituminous concrete @ 8%								
	8% OF BC	Kg		0.08	269.76	117.00	**2524.97**		
	Basic rate							27.00	
	Area weightage 6%							1.62	
	Total						**2524.97**	**28.62**	**72264.65**
16	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. (P.No.185- I.No.24.15)								
	PRAKRUTHI LAYOUT								
	Main road and cross roads	Sqm	2	129.50	0.10		25.90		
	DEFENCE LAYOUT								
	3rd Road	Sqm	2	229.00	0.10		45.80		
	BEL LAYOUT								
	3rd Block 12th Cross Road	Sqm	2	258.60	0.10		51.72		

	3rd Block 9th Cross Road	Sqm	2	212.50	0.10		42.50		
	5th Block venkateshwari temple Road	Sqm	2	270.00	0.10		54.00		
	Basic rate							512.00	
	Area weightage 6%							30.72	
	Total						**219.92**	**542.72**	**119354.98**
17	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202(P.No.138- I.No.18.47)								
	MUNESHWARA LAYOUT								
	4th Cross Road	Cum	1	72.00	4.60	0.15	49.68		
	Basic rate							781.00	
	Area weightage 6%							46.86	
	Total						**49.68**	**827.86**	**41128.08**
18	KSRRB M600-1. Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications.MORTH Specification No. 601, Item No. 22.1, Pg No. 176								
	MUNESHWARA LAYOUT								
	4th Cross Road	Cum	1	72.00	4.60	0.15	49.68		
	Basic rate							3761.00	
	Area weightage 6%							225.66	
	Total						**49.68**	**3986.66**	**198057.27**
19	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) Pg No.177 Item No.22.6.1								
	MUNESHWARA LAYOUT								
	4th Cross Road	Cum	1	72.00	4.60	0.15	49.68		
	Sub Total						**49.68**		
	Consider 5% qty for camber correction						**2.48**		
	Basic rate							5866.00	
	Area weightage 6%							351.96	
	Total						**52.16**	**6217.96**	**324353.67**
20	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Conrete Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms and 2Ltr of Primer per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. (P.No.192- I.No.24.57)								
	MUNESHWARA LAYOUT								
	4th Cross Road	Sqm	2	72.00	0.10		14.40		

	Basic rate							647.00	
	Area weightage 6%							38.82	
	Total						14.40	685.82	9875.81
								Sub Total	**3424891.20**
	Preparation of DPR And Project management Consultancy Charges(2% of estimated cost)								70000
	Miscellenious and rounding								5109
	TOTAL AMOUNT								**3500000**
RUPEES THIRTY FIVE LAKHS ONLY									

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2016-2017

Assistan Engineer
Vidyaran Divisio
BBMP, Bangalore - 97